

**SAFETY ORGANIZATIONS**

THIS FILTER HAS BEEN FORMALLY RECOGNIZED, CERTIFIED OR APPROVED BY THE LISTED AGENCY. THEREFORE, ALL TEST/REQUIREMENTS SPECIFIED IN THE LATEST REVISION OF THE FOLLOWING AGENCY STANDARDS HAVE BEEN MET:

- UL RECOGNIZED: UL 1283
- CSA CERTIFIED: CSA C22.2 No. 8
- VDE APPROVED: EN 60939-2

**OPERATING SPECIFICATIONS**

LINE CURRENT/VOLTAGE: 100 AMP 277 VAC LINE TO GROUND  
100 AMP 480 VAC PHASE TO PHASE

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
EACH LINE TO GROUND: 30mA @ 277VAC 50 HZ

OPERATING AMBIENT TEMP. RANGE: -10°C TO +50°C @ RATED CURRENT, I<sub>r</sub>.

IN AN AMBIENT, T<sub>a</sub>, HIGHER THAN 50°C, THE MAXIMUM OPERATING CURRENT, I<sub>o</sub>, IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{100 - T_a}{50}}$$

**RELIABILITY SPECIFICATIONS:**

STORAGE TEMPERATURE: -40°C TO +85°C  
HUMIDITY: 21 DAYS @ 50°C 95% RH.  
CURRENT OVERLOAD TEST: 6 TIMES I<sub>r</sub> FOR 8 SECONDS

**TEST SPECIFICATIONS:**

INDUCTANCE: .80 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 2.17 μF±20%  
LINE TO LINE: 6.60 μF±20%  
DISCHARGE RESISTOR: 660K Ω  
NO DISCHARGE RESISTOR: 6000MΩ (MIN.) 100VDC, 20°C AND 50% RH@

**CUSTOMER DRAWING**

CATALOG # 100BCF6

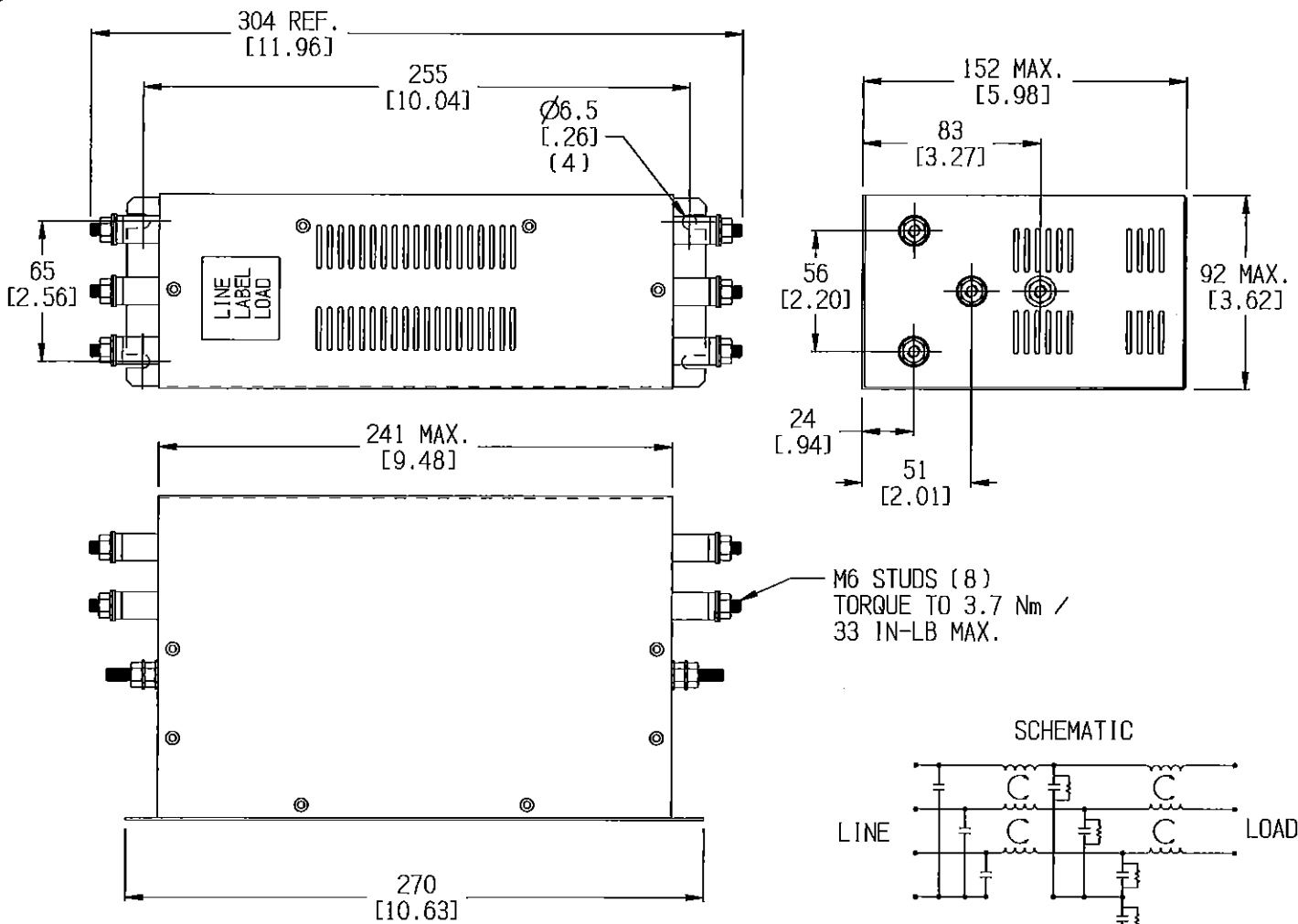
ECN#	APPRVD	DATE
15-011624	TAM	08DEC15

**RECOMMENDED RECEIVING INSPECTION HIPOT:**

LINE TO GROUND: 1850 VDC FOR 1 MINUTE  
LINE TO LINE: 1850 VDC FOR 1 MINUTE

**FILTER APPROVAL:**

THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.



M6 STUDS (8)  
TORQUE TO 3.7 Nm /  
33 IN-LB MAX.

**NOTES:**

1.) INSULATED TERMINALS ARE RECOMMENDED FOR WIRING TO THE FILTER

50 Ω - 50 Ω (TYPICAL) INSERTION LOSS												
FREQUENCY Hz	.01	.03	.05	.10	.15	.30	.50	1.0	3.0	5.0	10	30
COMMON dB	12	29	38	50	59	79	80	67	49	40	29	15
DIFF. dB	28	37	38	47	70	73	76	78	68	64	58	34

PARTS SHALL COMPLY WITH TYCO ELECTRONICS 138-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

UNLESS OTHERWISE SPECIFIED  
TOLERANCE TO BE ±0.64 [±0.025]  
MATERIAL & FINISH: AS SUPPLIED  
DIMENSIONS IN MM [INCHES]

**NOTES:**



**CUSTOMER DRAWING**

TE PART NO.: 3-1609091-1

SCALE: NTS	DATE: 30JUL15	DRAWING NUMBER: 100BCF6	REV. A
DRW. BY: HS	DRG: HS		



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